

## **ABSTRACT OF THE DISCLOSURE**

A system and method enables a fast charging current switch to be bypassed with a trickle charging current so a battery with a low internal resistance is not supplied a fast charging current. The fast charging current switch is enabled to supply a fast charging current to the battery in response to the battery voltage being at or above a threshold voltage. If the fast charging current switch is not enabled to provide the fast charging current then a bypass element provides the trickle charging current. Preferably, the bypass element is a resistor coupled across a transistor used to implement the fast charging current switch.